

LIFE SUPPORT SYSTEMS



**ROCKET JET ENGINEERING CORPORATION**

1311 GRAND CENTRAL AVENUE, GLENDALE 1, CALIFORNIA • 245-7766  
FAX "WXB" • CABLEGRAM "ROCKJET"

July 27, 1965  
65M-7-27



Fairfax, Virginia

Dear Harry:

Pursuant to our recent discussions, I am pleased to submit the enclosure which briefly outlines some of the recent added capability of Rocket Jet.

I would appreciate it if you would keep one copy for your files and also if you would forward the two remaining copies to others in your group who have expressed an interest and who may have future requirements within the discussed area.

I certainly enjoyed meeting with you and appreciate your interest in my Gulf & Western consolidation project.

Sincerely yours,



JTS:ds  
Encls.(3)

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25 YEAR RE-REVIEW

LIFE SUPPORT SYSTEMS



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### EXPANDED CAPABILITIES

Rocket Jet Engineering Corporation has been assigned by its parent corporation, "Gulf & Western Industries," to combine the varied technologies and capabilities of other Gulf & Western subsidiaries into a large, more effective organization.

This inter-merged group, under the management control of Rocket Jet, is now capable of providing varied subsystems and a major portion of "Global" support systems.

The "Global" or ground support systems, can be prefabricated mobile units, self-contained, with the capability of being interconnected to form a complex that would conceivably consist of some of the following units:

Command Post, Waste Disposal Units, Field Kitchens, Temperature and Pressure Controlling Centers, Equipment Maintenance Units with Environmental Chambers, Electronic Test and Support Units, etc.

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ROCKET JET ENGINEERING CORPORATION  
Glendale  
California

Twelve years experience in design, development and production of escape systems and survival equipment. Producers of complete survival kits, kit hardware and components of the configurations required to be compatible with yesterday's, today's and tomorrow's aircraft; parachute canopy releases, numerous types of manual and automatic barometric actuator quick disconnects used in conjunction with survival kits, or mounted directly to the ejection seat, incorporating provisions for oxygen, anti-G, vent air and electrical services.

New products and proposals include umbilical disconnects for missiles, ballistic disconnects for stage separation of missiles, vent and relief valves and liquid oxygen valves.

In addition to the above, the fiberglass and plastic in-plant capability consists of compression and transfer molding of thermosets, matched metal molding and autoclave curing of fiberglass lay-ups and vacuum forming of thermoplastics up to four feet by six feet.

CONRAD, INC.  
Holland, Michigan

Suppliers of environmental test chambers to over 160 domestic and 12 foreign industrial and military customers for a period of twenty years.

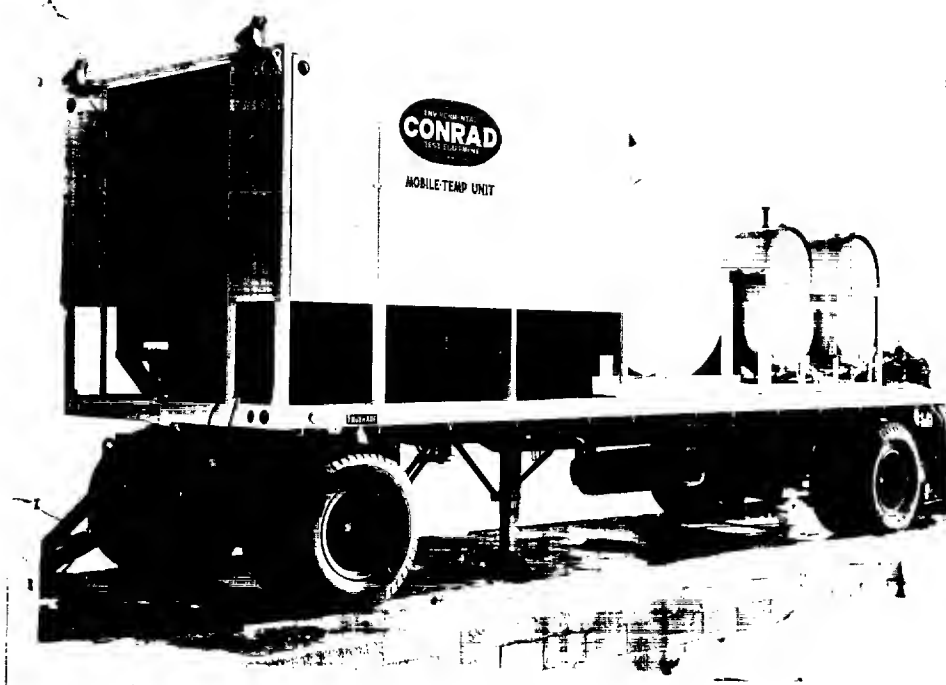
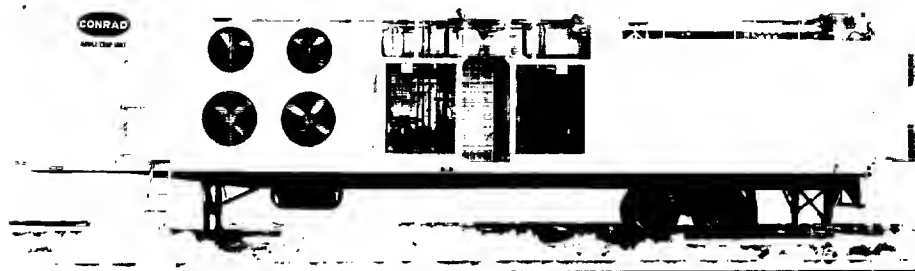
Conrad, Inc. manufactures environmental test and pressure chambers "exclusively" which cover the entire field of environmental testing. Environments such as heat, cold, humidity, altitude, rain, dust, sunshine and explosion have been reproduced. Conrad chambers range in size from two cu. ft. to models that contain entire missiles; temperatures which can be as extreme as testing requirements demand; altitude conditions approach those of outer space. Flexibility of operation, precision control, and reliability have accounted for the preference for Conrad equipment.

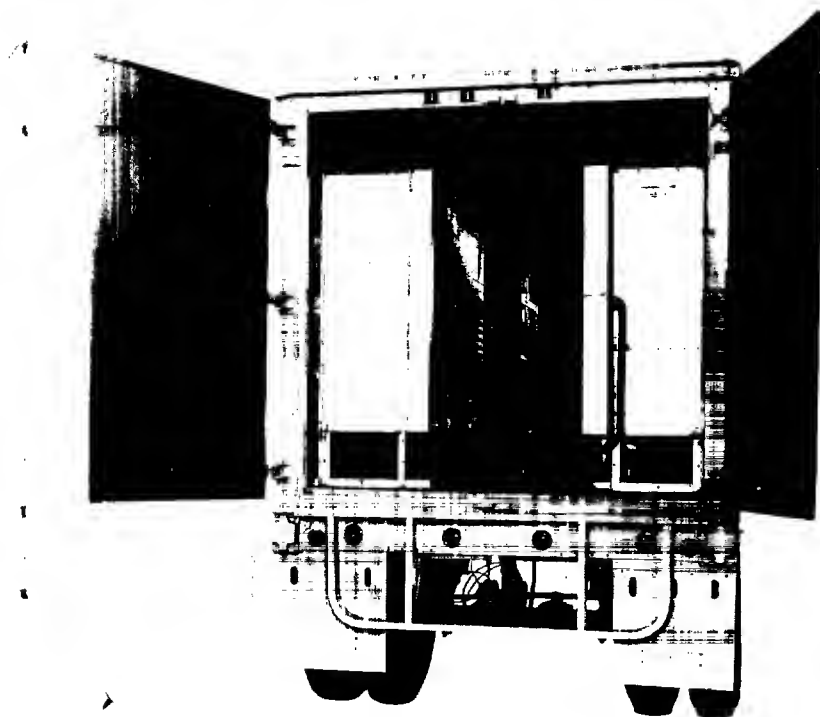
In close coordination with the Conrad operation is LENAPE HYDRAULIC PRESSING & FORGING CO., West Chester, Pennsylvania. Lenape supplies support to our consolidated group with over thirty-five years of specialized production of pressure vessel connections and manways with a continued tradition of highest quality manufacture and attention to every buyer's special requirements, covering a variety of applications on steam boilers, pressure vessels and tanks for conventional and nuclear power generation, petroleum and chemical processing; food, beverage and pharmaceutical production; marine propulsion; rail and road transportation of liquid fuels and comparable services.

GENERAL PRODUCTS CORPORATION  
Union Springs, New York

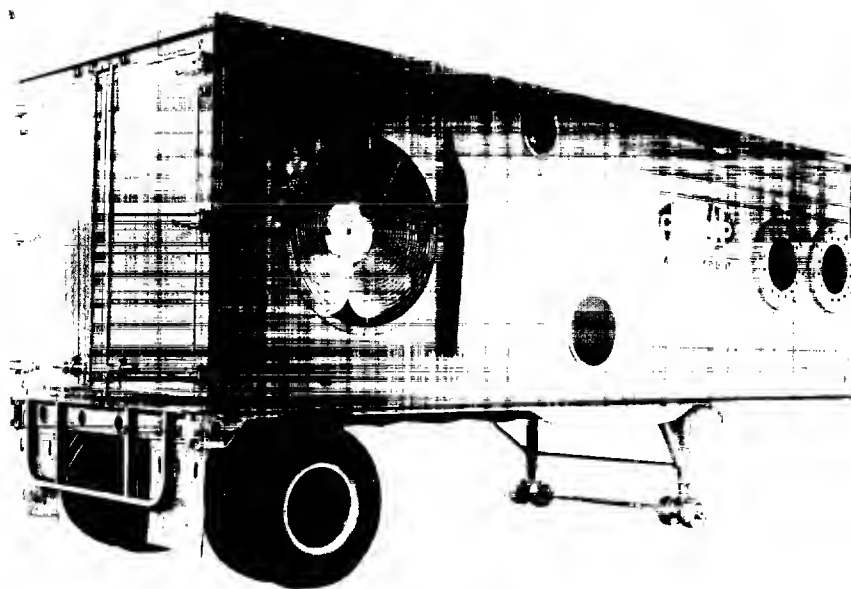
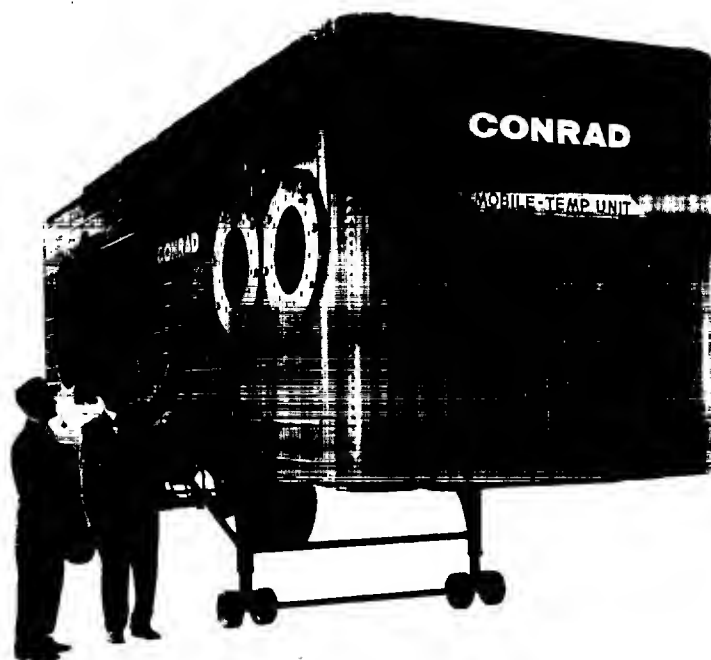
Engaged in research and development and manufacture of electrical components and systems for thirty years. Suppliers of:

- a) Military Terminal Boards -- Eleven years experience manufacturing to specifications such as MIL-T-16784, MIL-Std 167 Vibration, Bureau of Ships Drawing 9000-S6505-F-73214, Bureau of Ordnance Drawing 564101, Alkyd and Glass Compounds per MIL-M-14E, MIL-Std 901 and MIL-Std 242 utilizing molded-in studs for simplified wiring and slotted mounting holes.
- b) Polystyrene Capacitors which are hermetically sealed in metal cases with glass-to-metal end seals.
- c) Mylar Capacitors of minimum size utilizing non-inductive construction in an epoxy sealed, skin-tight case, precision processed and moisture resistant.
- d) Taper Pin Terminal Boards of single and multiple connection with an exclusive nesting feature offering maximum connections in a minimum of space and maximum flexibility in commoning arrangements.
- e) Specialized Molded Products utilizing thermosetting materials in combination with metals, both molded and assembled, for industrial and military applications. Products consist of electrical harnesses, connectors and components for the automotive industry.

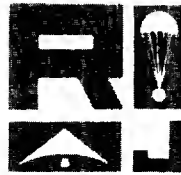




**COMET**  
HOLLAND HOLLAND  
ENVIRONMENTAL TEST CHAMBERS



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[Redacted]  
Fairfax, Virginia

Dear Harry:

During our recent meeting, discussions were held relative to the availability and application of a "high temperature wire" that can be used in conjunction with a "cannon" type connector, and can withstand a temperature range of 1200° to 1400°F.

Rocket Jet has been involved with programs such as "Project Fire" designed to check and record temperature of a vehicle making a re-entry from space into the earth's atmosphere. To fill this requirement, Rocket Jet has researched the following:

High Temperature Electrical Wire, 1200-1400°F Service

Insulated wire of the type normally used for electrical cabling is limited to a maximum service temperature of 500°F. This is a Teflon insulated wire covered by MIL-W-16878, Type "E" and MIL-W-22759.

Ref: Technical Memorandum No. 3, Table II  
Surprenant Manufacturing Co., Clinton, Mass.  
Subsidiary of International Telephone & Telegraph Corp.

It is possible to use bare nickel-clad copper or silver wire with ceramic tubing insulation.

WIRE

1. Sylvania Parts Division, General Telephone & Electronics, has nickel-clad silver and nickel-clad copper wire in sizes from .001 to .300 inch diameter for service to 1500°F. Also available is ribbon wire to .125 inch wide and down to .002 inch thick. (Sweet's Catalog 2dlsy).
2. H. K. Porter Co., Inc., Riverside-Allow Metal Division has nickel-clad copper wire having 70% electrical conductivity of the copper standard. This wire is for use in high temperature lead wire in electrical and electronic equipment.

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Fairfax, Virginia

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CERAMIC

1. McDanel Refractory Porcelain Co., Beaver Falls, Pa. 15010.
  - a) Ceramic tubes 5 millimeter, 1/4, 5/16 inch inside diameter to 60 inch length. Uses include thermocouple insulation to 3000F in air and to 2550F in dry hydrogen and carbon dioxide.
  - b) Ceramic tubes with multiple holes available. Typical is 2-hole, 1/8 inside diameter, 1/2 outside diameter, length 4 to 60 inches.
  - c) Also available is a crushable alumina tube which is used for flexible thermocouple and instrument leads. Single or multiple bore in lengths to 4 inches.

2. Hi-Temp Conductor Co. (Division of Simplex Wire & Cable), Westbury, Long Island (Phone: ED 3-4600).

Hi-Temp cable is used on launch pads below rocket. Consists of a copper I.D. with loose ceramic beads that centralize within an Inconel cover similar to BX cable (capable of a 6" x 8' radial bend).

I trust the above information will be useful; however, if further information is desired, don't hesitate to contact me.

Yours very truly,

[redacted]

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JTS:ds